

# Technical Data Sheet

## Steam Indicator Ink for Flexography Printing Processes



ISPN-01

True Indicating's Steam Ink, Product Code ISPN-01, is a flexographic ink formulation used to monitor exposure to steam (moist heat) conditions. The ink is a water-based formula which has low VOC's.

### Physical Properties

|                         |                                           |
|-------------------------|-------------------------------------------|
| Process                 | Steam                                     |
| Ink Carrier             | Water                                     |
| Packaging               | HDPE or equivalent containers             |
| pH                      | 8.5 – 10.0                                |
| Viscosity Zahn Cup # 4  | 30-50 seconds                             |
| Ink Appearance          | Thick pink liquid                         |
| Printed Indicator Color | Initial Color: Pink<br>Signal Color: Dark |
| Anilox Roller           | 165 – 85 lpi                              |
| Flexographic Line Speed | ≥150 ft./min.                             |

### Intended Use

Indicator Ink is intended for manufacture of steam Process and Multi-Critical Variable Indicators. The Indicators are intended for use in distinguishing processed from unprocessed goods or to indicate exposure to a sterilization process at a stated value (SV). Validation of Indicators and their performance is at the discretion of the manufacturer. The Indicator Ink has been confirmed to be ISO 11140-1:2014 Type 1 compliant on paper when exposed per the conditions outlined below.

|                          |                                               |
|--------------------------|-----------------------------------------------|
| Type 1 Process Indicator | 121°C for 10 minutes<br>134°C for 3.5 minutes |
|--------------------------|-----------------------------------------------|

Printed Indicators manufactured with ink ISPN-01 can be used at temperatures between 121° and 140°C.

### Instructions for Use



**TRUE INDICATING**  
PRODUCTS

True Indicating, LLC  
946 Kane Street, Suite A  
Toledo OH 43612-1372  
T: 419-476-7119  
[www.TrueIndicating.com](http://www.TrueIndicating.com)

Email: [info@trueindicating.com](mailto:info@trueindicating.com)

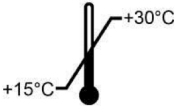


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ISPN-01 is intended for flexographic printing onto paper (uncoated preferred) substrates. Steam exposure of printed ink will transition from pink to dark. The shade of initial and signal color will depend on the thickness of ink printed, the substrate onto which it is printed and the exposure conditions.

Colors shown are examples of actual printed ink using a 85 lpi Anilox roller and paper. Signal or end point color will vary due to printing conditions and exposure variables.

| Initial Color                                                                     | Signal Color                                                                       |
|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
|  |  |

| Storage and Shelf Life                                                              |                                                                                                                                                                                                  |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Shelf Life</b>                                                                   | 13 months from date of manufacture                                                                                                                                                               |
|  | 15°C to 30°C (Protect from heat sources)                                                                                                                                                         |
|  | Keep away from sterilant and other chemical agents.<br><b>Do not reuse ink!</b> Discard all remaining ink.<br>Up to 5% by weight of water or ether can be added to the ink to decrease dry time. |
|  | 20% to 80% Relative Humidity                                                                                                                                                                     |

## Disposal

Dispose in accordance with all federal, state, provincial, and local regulations. This material does not meet the criteria of a hazardous waste as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.



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Email: [info@trueindicating.com](mailto:info@trueindicating.com)